

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work



Farm Name: Mike Ross 8H

Operator Well No.: 627502

LOCATION Elevation: 1436'
District: Bucknon
Latitude: 2500ft South of 39° 00' 00"
Longitude: 5000ft West of 80° 15' 00"

Quadrangle: Adrian
County: Upshur

Company: Chesapeake Appalachia, L.L.C.
P.O. Box 18496
OKC, OK 73154-0496

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill-Up Cu.Ft.
20"	40'	40'	Driven
13 3/8"	510'	510'	572 CF
9 5/8"	1805'	1805'	833 CF
5 1/2"	12,507'	12,507'	1983 CF

Agent: Eric Gillespie
Inspector: Bill Hatfield
Date Permit Issued: 08/27/2009
Date Well work commenced: 01/29/2010
Date Well Work completed: 6/17/2010
Verbal Plugging Permission
Granted on / /
Rotary Cable Rig
Total Depth (ft): 12507' TVD (ft): 7331'
Fresh Water Depth (ft): 375'
Salt Water Depth (ft.): NA
Is coal being mined in area (Yes No
Coal Depths (ft): 360'
Was this well logged and plugged back?
Yes ___ No X if yes -
depth cement plug set _____

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Open Flow Data

1st Producing Formation Pay Zone Depth 7,578 ft to 12,371 ft
 Gas: Initial Open Flow 1,721 Mcf/day Oil: Initial Open Flow bbl/day
 Final Open Flow Mcf/day Final Open Flow bbl/day
 Time of Open Flow between Initial and Final Tests In hours
 Line hours
 Static Rock Pressure 3,309 psig after hours

2nd Producing Formation Pay Zone Depth ft to ft
 Gas: Initial Open Flow Mcf/day Oil: Initial Open Flow bbl/day
 Final Open Flow Mcf/day Final Open Flow bbl/day
 Time of Open Flow between Initial and Final Tests hours
 Static Rock Pressure psig after hours

3rd Producing Formation Pay Zone Depth ft to ft
 Gas: Initial Open Flow Mcf/day Oil: Initial Open Flow bbl/day
 Final Open Flow Mcf/day Final Open Flow bbl/day
 Time of Open Flow between Initial and Final Tests hours
 Static Rock Pressure psig after hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Chesapeake Energy
Well No.: 627502

Perforated Intervals

1 st Stage	Marcellus	10 holes from	12,049 ft to	12,371 ft
2 nd Stage	Marcellus	10 holes from	11,649 ft to	11,971 ft
3 rd Stage	Marcellus	10 holes from	11,249 ft to	11,571 ft
4 th Stage	Marcellus	10 holes from	10,849 ft to	11,171 ft
5 th Stage	Marcellus	10 holes from	10,329 ft to	10,771 ft
6 th Stage	Marcellus	10 holes from	9,929 ft to	10,251 ft
7 th Stage	Marcellus	10 holes from	9,506 ft to	9,826 ft
8 th Stage	Marcellus	10 holes from	9,104 ft to	9,426 ft
9 th Stage	Marcellus	10 holes from	8,702 ft to	9,028 ft
10 th Stage	Marcellus	10 holes from	8,300 ft to	8,622 ft
11 th Stage	Marcellus	10 holes from	7,898 ft to	8,220 ft
12 th Stage	Marcellus	10 holes from	7,578 ft to	7,820 ft

Fracturing / Stimulation

1 st Stage	Type of Treatment Slickwater			
	Total Acid 5,000 Gal of 15% HCl		Breakdown Pressure 6,871 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,931 psi MTP 8,992 psi	
	Total Fluid 11,139 bbl	Total Nitrogen 0 scf	Total Sand 82,000 lb of 100 mesh	
			Total Sand 320,000 lb of 40/70	
	ISIP 4,373 psi	5 min 3,898 psi		
2 nd Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 8,038 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,300 psi MTP 9,049 psi	
	Total Fluid 13,753 bbl	Total Nitrogen 0 scf	Total Sand 80,152 lb of 100 mesh	
			Total Sand 320,362 lb of 40/70	
	ISIP 5,990 psi	5 min 5,181 psi		
3 rd Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 8,002 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,551 psi MTP 8,913 psi	
	Total Fluid 12,306 bbl	Total Nitrogen 0 scf	Total Sand 81,000 lb of 100 mesh	
			Total Sand 320,000 lb of 40/70	
	ISIP 5,597 psi	5 min 4,542 psi		
4 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,554 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,428 psi MTP 8,932 psi	
	Total Fluid 13,013 bbl	Total Nitrogen 0 scf	Total Sand 83,000 lb of 100 mesh	
			Total Sand 292,000 lb of 40/70	
	ISIP 5,622 psi	5 min 4,721 psi		
5 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,519 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,355 psi MTP 8,781 psi	
	Total Fluid 19,769 bbl	Total Nitrogen 0 scf	Total Sand 245,200 lb of 100 mesh	
			Total Sand 321,00 lb of 40/70	
	ISIP 5,536 psi	5 min 5,616 psi		
6 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,861 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,102 psi MTP 8,856 psi	
	Total Fluid 10,883 bbl	Total Nitrogen 0 scf	Total Sand 81,000 lb of 100 mesh	
			Total Sand 291,000 lb of 40/70	
	ISIP 5,793 psi	5 min 5,104 psi		
7 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,525 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,750 psi MTP 8,547 psi	
	Total Fluid 14,435 bbl	Total Nitrogen 0 scf	Total Sand 68,000 lb of 100 mesh	
			Total Sand 337,35 lb of 40/70	
	ISIP 5,927 psi	5 min 5,031 psi		
8 th Stage	Type of Treatment Slickwater			
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,451 psi	
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,090 psi MTP 9,100 psi	

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	Total Fluid 12,148 bbl	Total Nitrogen 0 scf	Total Sand 78,000 lb of 100 mesh
			Total Sand 239,758 lb of 40/70
9 th Stage	ISIP 5,927 psi	5 min 5,400 psi	
		Type of Treatment Slickwater	
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,511 psi
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,035 psi MTP 8,231 psi
	Total Fluid 11,510 bbl	Total Nitrogen 0 scf	Total Sand 160,000 lb of 100 mesh
			Total Sand 237,291 lb of 40/70
10 th Stage	ISIP 4,989 psi	5 min 4,989 psi	
		Type of Treatment Slickwater	
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 7,690 psi
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,407 psi MTP 8,804 psi
	Total Fluid 11,113 bbl	Total Nitrogen 0 scf	Total Sand 52,914 lb of 100 mesh
			Total Sand 237,291 lb of 40/70
11 th Stage	ISIP 4,340 psi	5 min 3,867 psi	
		Type of Treatment Slickwater	
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 6,801 psi
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 8,103 psi MTP 8,990 psi
	Total Fluid 9,812 bbl	Total Nitrogen 0 scf	Total Sand 83,500 lb of 100 mesh
			Total Sand 227,155 lb of 40/70
12 th Stage	ISIP 5,595 psi	5 min 4,715 psi	
		Type of Treatment Slickwater	
	Total Acid 2,500 Gal of 15% HCl		Breakdown Pressure 7,148 psi
	Average Rate 85 scf/min <input type="checkbox"/> or bpm <input checked="" type="checkbox"/>		ATP 7,909 psi MTP 8,979 psi
	Total Fluid 4,312 bbl	Total Nitrogen 0 scf	Total Sand 76,631 lb of 100 mesh
			Total Sand 326,580 lb of 40/70
	ISIP 4,510 psi	5 min 3,901 psi	

Well Log

Formation Name	Top	Bottom	Comments
MAXTON	860	1334	
LITTLE LIME	1334	1400	
BIG LIME	1400	1634	
BIG INJUN	1634	1665	
GANTZ	1704	1764	
GORDON	1777	1793	
FOURTH SAND	2142	2191	
FIFTH SAND	2222	2298	
BAYARD	2338	2361	
ELIZABETH	2444	2481	
WARREN	2587	2615	
SPEECHLEY	2907	2964	
BALLTOWN	3117	3141	
RILEY	3740	3851	
BENSON	4155	4216	
ALEXANDER	4320	4405	
ANGOLA	4497	4816	
RHINESTREET	4816	5686	
ELK	5686	5733	
SYCAMORE	6487	6509	
MIDDLESEX	7001	7236	
GENESEO	7236	7294	
TULLY	7294	7335	
HAMILTON	7335	7560	
MARCELLUS	7560	7660	

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Signed:


CHESAPEAKE APPALACHIA, LLC

By: Tal Oden, Manager Regulatory

Date: 11/15/2010

11/11/2011